

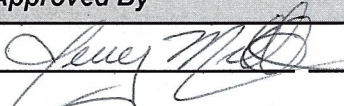
IAP Cover Sheet		Version Name: Period 2	
Incident Name: 2018 Superior Refinery Fire		Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Approved By			
Incident Commander:		Miller, Jerry 	
<h1>Incident Action Plan</h1>			
Notes			
<div>949312</div>			
IAP Cover Sheet		Prepared By Planning, Updated 04/30/2018 15:39 UTC -6:00 PP	
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Incident Name: 2018 Superior Refinery Fire
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Period: Period 2 [05/01/18 06:00 - 05/02/18 06:00]
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Weather Report				Version Name: 20180430_0730	
Incident Name: 2018 Superior Refinery Fire				Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Present Conditions					
Weather Conditions as of 04/30/2018 07:42					
superior, wi us station id: MID_KSUW					
Humidity (%): 99 Wind Speed: 0 mph Wind Direction (from): N Temperature: 40 Fahrenheit Visibility: 7 mile(s)			Pressure: 29.91 psi Dew Point: 40 Feels Like: 40 UV Index:		
Periods of showers and thunderstorms, mainly before 11am. High near 72. Breezy, with a southeast wind 5 to 15 mph becoming southwest in the afternoon. Winds could gust as high as 20 mph. Chance of precipitation is 90%.					
Forecast Date	Wind	Temp High/Low	% Precip	Sunrise/Sunset	Notes
Mon 04/30/2018	7 mph S	49 F	44		Isolated showers before 1am, then isolated showers and thunderstorms between 1am and 4am, then isolated showers after 4am. Mostly cloudy, with a low around 50. South wind 5 to 10 mph, with gusts as high as 15 mph. Chance of precipitation is 20%.
Tue 05/01/2018	10 mph SSW	67 F	33		Scattered showers, with thunderstorms also possible after 1pm. Partly sunny, with a high near 65. Breezy, with a southwest wind 5 to 15 mph, with gusts as high as 20 mph. Chance of precipitation is 30%.
	6 mph W	39 F	24		20 percent chance of showers before 1am. Mostly cloudy, with a low around 39. Northwest wind 5 to 10 mph.
Wed 05/02/2018	7 mph WNW	62 F	9		Mostly sunny, with a high near 60. Northwest wind around 5 mph.
	4 mph WNW	37 F	7		Partly cloudy, with a low around 38.
Thu 05/03/2018	6 mph E	61 F	10		Mostly sunny, with a high near 62.
	5 mph SE	39 F	10		A slight chance of showers after 1am. Partly cloudy, with a low around 40.
Tides					
Weather Report				Prepared By Joe Buckley, Updated 04/30/2018 07:48 UTC -6:00 PP	
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Incident Map/Sketch

20180430_ImpactedAreaDronelImagery.jpg



Incident Map/Sketch

20180430ProcoessingPlantDronelImage.jpg



ICS 202b - Critical Information Requirements		Version Name: Period 2	
Incident Name: 2018 Superior Refinery Fire		Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
<div>Incident Command Critical Threshold Reporting Criteria</div> <div>Injury or Death<ul style="list-style-type: none">- OSHA/Greater than 1st Aid through Safety Officer</div> <div>Significant change of status of the source</div> <div>Any incidents within the incident</div> <div>Public health impacts</div> <div>Impacted sensitive areas beyond protection/Any change to trajectories</div> <div>Loss of major tactical resources</div> <div>Unplanned VIP visits en-route/planning/arriving</div> <div>Adverse protest plans or interview requests</div> <div>Adverse political/influence</div> <div>Loss or breach of containment</div> <div>Any breach in safety/investigation zone</div> <div>Special requests from agencies</div> <div>Any changes to respiratory requirements (eg: SCBA)</div> <div>Any evidence of fish kill</div>			
ICS 202b - Critical Information Requirements		Prepared By Schade, Kollin, Updated 04/30/2018 09:13 UTC -6:00 PP	
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ICS 204 - Assignment List			Group: Flare Purge Group	
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Stabilization Branch Director	Thom, Tim	Husky Energy Inc.	715-817-8016	
Flare Purge Group Supervisor	Ivanca, Erin	Husky Energy Inc.	651-592-6339	
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
Flare Purge Group	Manpower: Responder	Day Shift Responders	16	
Assignments				
<p>Continue efforts to identify flare mechanical integrity weaknesses. Including piping, knockout vessels and flare.</p> <p>Prioritize knockout pots to be drained and drain by priority.</p> <p>Isolate sections as needed to achieve a flare system can be purged with nitrogen.</p> <p>Any purging activities will need prior approval from the Stabilization Branch Director.</p> <p>Destruction efficiency of flaring method</p>				
Communications				
Name / Function		Contact Details		
ERT Channel		8		
Channel 1 Talk Around		11		
Primary		1		
Secondary		2		
Radio		3 to 7		
Special Environmental Considerations				
<p>Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.</p> <p>Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring. Any liquid hydrocarbon release shall be cleaned up immediately.</p>				
Special Site-Specific Safety Considerations				
<p>If in Hot Zone, follow Hot Zone entry procedures discussed in previous section.</p> <p>If in Warm or Cold Zone, refinery PPE must be worn.</p> <p>Hazard assessment must be done to plan safe work.</p> <p>Be cognizant of the hazards of the product in Flare, nitrogen, fire and similar hazards.</p>				
ICS 204 - Assignment List			Updated 04/30/2018 09:15 UTC -6:00	
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ICS 204 - Assignment List			Group: De-Inventory Group		
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]		
Operations Personnel					
Position	Name	Affiliation	Contact Number(s)	Work Shift	
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594		
Stabilization Branch Director	Thom, Tim	Husky Energy Inc.	715-817-8016		
De-Inventory Group Supervisor	Laszewski, Aaron	Husky Energy Inc.	920-883-1992		
Resources Required					
Area Of Operation	Resource Kind	Description	Quantity	Size	
De-Inventory Group	Manpower: Responder	Day Shift Responders	16		
De-Inventory Group	Manpower: Responder	Additional Contractors	5		
Assignments					
Assess current site conditions.					
Prioritize assets for de-inventory based on current pressure on the vessel and light ends content.					
Mobilize specialty contractor (Evergreen). Perform site walk-through with Evergreen engineering team.					
Communications					
Name / Function	Contact Details				
ERT Channel	8				
Channel 1 Talk Around	11				
Primary	1				
Secondary	2				
Radio	3 to 7				
Special Site-Specific Safety Considerations					
If in Hot Zone, follow Hot Zone entry procedures discussed in previous section.					
If in Warm or Cold Zone, refinery PPE must be worn.					
Hazard assessment must be done to plan safe work.					
Be cognizant of the hazards of the hazards of Nitrogen, reactor contents, etc.					
ICS 204 - Assignment List			Updated 04/30/2018 16:20 UTC -6:00		
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ICS 204 - Assignment List			Group: Reactor Group		
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]		
Operations Personnel					
Position	Name	Affiliation	Contact Number(s)	Work Shift	
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594		
Stabilization Branch Director	Thom, Tim	Husky Energy Inc.	715-817-8016		
Reactor Group Supervisor	Witherill, Troy	Husky Energy Inc.	218-522-0114		
Resources Required					
Area Of Operation	Resource Kind	Description	Quantity	Size	
Reactor Group	Manpower: Responder	Day Shift Responders	3		
Reactor Group	Manpower: Responder	Night Shift Responders	2		
Reactor Group	Miscellaneous	Nitrogen Bottles	12		
Assignments					
Maintain and document ongoing nitrogen purge. 24hr operations. Report any loss of nitrogen purge immediately to the Reactor Group Supervisor.					
Communications					
Name / Function		Contact Details			
ERT Channel		8			
Channel 1 Talk Around		11			
Primary		1			
Secondary		2			
Radio		3 to 7			
Special Environmental Considerations					
<p>Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.</p> <p>Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring. Any liquid hydrocarbon release shall be cleaned up immediately.</p>					
Special Site-Specific Safety Considerations					
<p>If in Hot Zone, follow Hot Zone entry procedures discussed in previous section.</p> <p>If in Warm or Cold Zone, refinery PPE must be worn.</p> <p>Hazard assessment must be done to plan safe work.</p> <p>Be cognizant of the hazards of the product in Flare, nitrogen, fire and similar hazards.</p> <p>Be aware of the hazards of Nitrogen, reactor contents, etc.</p>					
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ICS 204 - Assignment List			Group: Asset Stabilization Group	
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Stabilization Branch Director	Thom, Tim	Husky Energy Inc.	715-817-8016	
Asset Stabilization Group Supervisor	Talarico, Sam	Husky Energy Inc.	218-340-9781	
Asset Stabilization Group Supervisor	Rikkola, Ken	Husky Energy Inc.	218-343-9538	
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
Asset Stabilization Group	Manpower: Responder	Day Shift Responders	16	
Asset Stabilization Group	Manpower: Responder	Engineer	1	
Assignments				
<p>Primary asset of concern: Stripper tower</p> <p>Report findings to the Asset Stabilization Group Supervisor</p> <p>Speciality contractor (Mammoet) will start to mobilize to site.</p> <p>Speciality contractor (Brandenburg Demolition) will start to mobilize to site.</p> <p>Based on findings on 4/30/18 - Operations Section Chief may direct teams to mobilize local contractor crane and critical lift engineering team</p> <p>Start identifying other assets of concern.</p>				
Communications				
Name / Function		Contact Details		
ERT Channel		8		
Channel 1 Talk Around		11		
Primary		1		
Secondary		2		
Radio		3 to 7		
Special Environmental Considerations				
<p>Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.</p> <p>Once stabilization events commence, notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring.</p>				
Special Site-Specific Safety Considerations				
<p>All contractors must be preapproved by Refinery Safety Department.</p> <p>If in Hot Zone, follow Hot Zone entry procedures discussed in previous section.</p> <p>If in Warm or Cold Zone, refinery PPE must be worn.</p> <p>Hazard assessment must be done to plan safe work.</p> <p>Be cognizant of the hazards of the product in Flare, nitrogen, fire and similar hazards.</p>				
ICS 204 - Assignment List			Updated 04/30/2018 12:26 UTC -6:00	
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ICS 204 - Assignment List			Group: HF Removal Group	
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Stabilization Branch Director	Thom, Tim	Husky Energy Inc.	715-817-8016	
HF Removal Group Supervisor	McCusker, Brian	Husky Energy Inc.	218-348-9769	
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
HF Removal Group	Manpower: Responder	Day Shift Responders	3	
Assignments				
<p>Inspect HF acid tank (Tank #16a-v4) to confirm mechanical integrity and that tank is fit to pressurize for de-inventorying.</p> <p>Specialist (HF Alkylation Consultants) to assist.</p> <p>Develop de-inventory temporary piping and venting plan. This plan is to be approved by standard refinery MOC process and Operations Section Chief.</p>				
Communications				
Name / Function	Contact Details			
ERT Channel	8			
Channel 1 Talk Around	11			
Primary	1			
Secondary	2			
Radio	3 to 7			
Special Site-Specific Safety Considerations				
<p>If in Hot Zone, follow Hot Zone entry procedures.</p> <p>Within HF Alky Unit, Alky Gear must be worn.</p> <p>If in Warm or Cold Zone, refinery PPE must be worn except where HF Alky Gear is required and that must be worn.</p> <p>Hazard assessment must be done to plan safe work.</p> <p>Be cognizant of the hazards of the product in Flare, nitrogen, fire and similar hazards.</p>				
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ICS 204 - Assignment List			Task Force: Energy Restoration Task Force	
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Stabilization Branch Director	Thom, Tim	Husky Energy Inc.	715-817-8016	
Utilities Group Supervisor	Laszewski, Aaron	Husky Energy Inc.	920-883-1992	
Energy Restoration Task Force Leader	Carlson, Brad	Husky Energy Inc.	218-390-5182	
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
Energy Restoration Task Force	Manpower: Responder	Manpower: Responder	4	
Assignments				
Continue to identify electrical opportunities and needs to restore normal operating capabilities to the facility.				
Start developing enigerization plan including priority assets. Plan to be be approved through normal refinery MOC process and Operations Section Chief.				
Communications				
Name / Function	Contact Details			
ERT Channel	8			
Channel 1 Talk Around	11			
Primary	1			
Secondary	2			
Radio	3 to 7			
Special Environmental Considerations				
Considerations of potential hydrocarbon release should be made prior to energizing hydrocarbon containing equipment or their control system in order to minimize the release of hydrocarbons. Prior to energizing any CEM buildings all building analyzers and sampling equipment shall be turned off.				
Special Site-Specific Safety Considerations				
Follow Refinery Electrical Safety and Lockout Tagout programs.				
Be cognizant of downed power lines, overhead hazards and potential for unintentional energization of electrical equipment.				
Wear PPE appropriate to the potential electrical source.				
ICS 204 - Assignment List			Updated 04/30/2018 09:25 UTC -6:00	
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ICS 204 - Assignment List			Task Force: ERT Task Force	
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Emergency Response Group Supervisor	Quimby, Jerome	Husky Energy Inc.	218-428-5190	
ERT Task Force Leader	Hunker, Johnny	Husky Energy Inc.		
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
ERT Task Force	Fire Fighting Foam	Fire Fighting Foam	1500	
ERT Task Force	Tanker Truck	Tanker Truck	1	
ERT Task Force	Foam pumper	Foam pumper	1	
ERT Task Force	Manpower: Responder	Manpower: Responder	35	
Assignments				
<p>Maintain 24hr readiness to respond to any incidents on-site. Follow guidelines as defined in existing Superior Refinery Emergency Response Plan.</p> <p>Escort all approved individuals into the hot zone area as needed. All approvals to go through Maintenance Supervision.</p> <p>See attached map for warm and hot zone locations.</p>				
Communications				
Name / Function		Contact Details		
ERT Channel		8		
Channel 1 Talk Around		11		
Primary		1		
Secondary		2		
Radio		3 to 7		
Special Site-Specific Safety Considerations				
<p>If in Hot Zone, follow Hot Zone entry procedures discussed in previous section.</p> <p>If in Warm or Cold Zone, refinery PPE must be worn.</p>				
ICS 204 - Assignment List			Updated 04/30/2018 15:02 UTC -6:00	
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ICS 204 - Assignment List	Task Force: ERT Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]
20180429_warmzone Map.jpg	



ICS 204 - Assignment List			Task Force: Fire Pump Task Force	
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Emergency Response Group Supervisor	Quimby, Jerome	Husky Energy Inc.	218-428-5190	
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
Fire Pump Task Force	Manpower: Responder	Manpower: Responder	4	
Fire Pump Task Force	Pumps	Fire Pumps	4	
Assignments				
Maintain operational readiness of fire water pumps. Report any issues to the Emergency Response Group Supervisor.				
Communications				
Name / Function	Contact Details			
ERT Channel	8			
Channel 1 Talk Around	11			
Primary	1			
Secondary	2			
Radio	3 to 7			
Special Environmental Considerations				
Release of diesel fuel at the diesel fire water pumps shall be properly cleaned up immediately for proper disposal.				
Special Site-Specific Safety Considerations				
Refinery require FR clothing, Hard Hat, Safety Glasses and safety boots.				
If in Diesel Pump building and pumps are running, hearing protection must be worn.				
If working along the pond perimeter, a life jacket must be worn.				
ICS 204 - Assignment List			Updated 04/30/2018 09:36 UTC -6:00	
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ICS 204 - Assignment List			Group: Air Monitoring Task Force	
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Environmental Monitoring Group Supervisor	Beattie, Dave	Husky Energy Inc.	218-348-9051	
Air Monitoring Task Force Supervisor	Darby, Mark	Husky Energy Inc.	218-525-5848	
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
Air Monitoring Task Force	Equipment: Air Monitoring	AreaRaes	14	
Air Monitoring Task Force	Equipment: Air Monitoring	MultiRaes	10	
Air Monitoring Task Force	Equipment: Air Monitoring	UltraRaes	6	
Air Monitoring Task Force	Equipment: Air Monitoring	Dust Track	5	
Air Monitoring Task Force	Manpower: Operator	Air Monitoring Supervisors	2	
Air Monitoring Task Force	Manpower: Responder	Industrial Hygienist	20	
Assignments				
<p>1. Continue to maintain a fixed perimeter air monitoring system that has been deployed to the area currently delineated as the hot zone. This monitoring will be conducted in accordance with the Site action levels described in the Air Monitoring Plan</p> <p>2. Continue to maintain a fixed perimeter air monitoring system that has deployed to the perimeter of the refinery process area at or near the fenceline. This monitoring will be used to provide information regarding air quality in close proximity to potential sources of emissions of COI during the cleanup and recovery phases of the project.</p> <p>3. Mobile community monitoring teams will continue to conduct monitoring in the area outside the facility, with a focus on downwind monitoring, while the cleanup and recovery phases of the project are ongoing.</p>				
Communications				
Name / Function	Contact Details			
ERT Channel	8			
Channel 1 Talk Around	11			
Primary	1			
Secondary	2			
Radio	3 to 7			
Special Site-Specific Safety Considerations				
<p>If in Hot Zone, must follow Hot Zone Procedures including Bunker Gear, ERT escort, 4-Gas Monitor and sign in at ERT Response Center.</p> <p>All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots.</p> <p>If working along the perimeter fence or other Husky property outside of refinery, contact security guards at 715-398-8220 to make them aware of your presence. Otherwise, the police will be called.</p> <p>When in the refinery, be cognizant of hazards associated with a fire zone.</p> <p>When working along the refinery perimeter, be cognizant of slip, trip and fall hazards.</p> <p>Emergency Alarm system will signal need to evacuate from the site.</p>				
ICS 204 - Assignment List			Updated 04/30/2018 09:43 UTC -6:00	
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ICS 204 - Assignment List			Group: IH Monitoring Task Force	
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Environmental Monitoring Group Supervisor	Beattie, Dave	Husky Energy Inc.	218-348-9051	
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
IH Monitoring Task Force	Manpower: Responder	Industrial Hygienist	2	
IH Monitoring Task Force	Pumps	Sampling Pumps	5	
Assignments				
<p>Continue asbestos monitoring on-site as directed by Safety Officer.</p> <p>Identify locations of presumed asbestos containing debris within the refinery.</p> <p>Clean/remove asbestos containing material from the area outside of the fence</p> <p>Conduct the following only if permission granted by Bill Demchuk: Start cleaning/remove asbestos containing debris from within the refinery (Outside of the hot zone)</p> <p>Personal monitoring for air contaminants. (VOC, Asbestos)</p>				
Communications				
Name / Function		Contact Details		
ERT Channel		8		
Channel 1 Talk Around		11		
Primary		1		
Secondary		2		
Radio		3 to 7		
Special Site-Specific Safety Considerations				
<p>If in Hot Zone, must follow Hot Zone Procedures including Bunker Gear, ERT escort, 4-Gas Monitor and sign in at ERT Response Center.</p> <p>All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots.</p> <p>If working along the perimeter fence or other Husky property outside of refinery, contact security guards at 715-398-8220 to make them aware of your presence. Otherwise, the police will be called.</p> <p>When in the refinery, be cognizant of hazards associated with a fire zone.</p> <p>When working along the refinery perimeter, be cognizant of slip, trip and fall hazards.</p>				
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ICS 204 - Assignment List			Task Force: Boom Maintenance Task Force		
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]		
Operations Personnel					
Position	Name	Affiliation	Contact Number(s)	Work Shift	
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594		
Environmental Monitoring Group Supervisor	Beattie, Dave	Husky Energy Inc.	218-348-9051		
Boom Maintenance Task Force Leader	Turner, Matt	Husky Energy Inc.	715-969-4873		
Resources Required					
Area Of Operation	Resource Kind	Description	Quantity	Size	
Boom Maintenance Task Force	Manpower: Responder	Manpower: Responder	4		
Boom Maintenance Task Force	Boom	Boom	400		
Boom Maintenance Task Force	Sorbent: Boom	Sorbent: Boom	400		
Boom Maintenance Task Force	Vehicle	Vehicle	4		
Assignments					
1. A team of two personnel will travel to the current boom sites along Newton Creek to asses the condition of the boom. The morning crew will replace all absorbent boom that appears to have petroleum contamination.					
2.Any containment boom that is compromised should be replaced or adjusted to assure functionality. Any spent sorbent boom will be put into 55 gallon steel drums that are labeled with a non-hazardous waste label filled in with "Oily Absorbent Booms".					
3.Full drums will be brought to the 90 day storage building. Pictures of each boom site should be taken both before and after any upkeep for documentation. Report to acting shift foreman for any additional work he may have for them.					
Communications					
Name / Function	Contact Details				
Primary	1				
Secondary	2				
Radio	3 to 7				
ERT Channel	8				
Channel 1 Talk Around	11				
Channel 2 Talk Around	12				
Special Equipment / Supplies Needed for Assignment					
Steel Drums, wheelbarrow					
ICS 204 - Assignment List			Prepared By Planning, Updated 04/30/2018 16:27 UTC -6:00 PP		
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ICS 204 - Assignment List			Group: Security Group	
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Security Group Supervisor	O'Brien, John	Husky Energy Inc.	218-390-4367	
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
Security Group	Manpower: Responder	Securitas Security Officer	18	
Security Group	Vehicle	Security Vehicle	2	
Assignments				
<p>Securitas to maintain 24hr security checkpoints at road blocks, command post and control sites. Roving security to patrol between sites and to additional locations as requested.</p> <p>Security to reference list of (Non-Husky) individuals approved for access.</p> <p>Sites:</p> <ul style="list-style-type: none"> - Road block at Stinson/Hill - Road block at Stinson/Bardon - Hill/Stinson Guard Shack 				
Communications				
Name / Function		Contact Details		
ERT Channel		8		
Channel 1 Talk Around		11		
Primary		1		
Secondary		2		
Radio		3 to 7		
Special Environmental Considerations				
Immediate notification of a breach in the security of the site should be reported through the ICS system to mitigate the potential for a release of hydrocarbon to the environment.				
Special Site-Specific Safety Considerations				
<p>Any work on roadways requires a high visibility vest.</p> <p>Be cognizant of vehicle traffice.</p>				
ICS 204 - Assignment List			Updated 04/30/2018 10:00 UTC -6:00	
INCIDENT ACTION PLAN SOFTWARE™	Printed 04/30/2018 17:29 UTC -6:00	Page 21 of 30	© TRG	

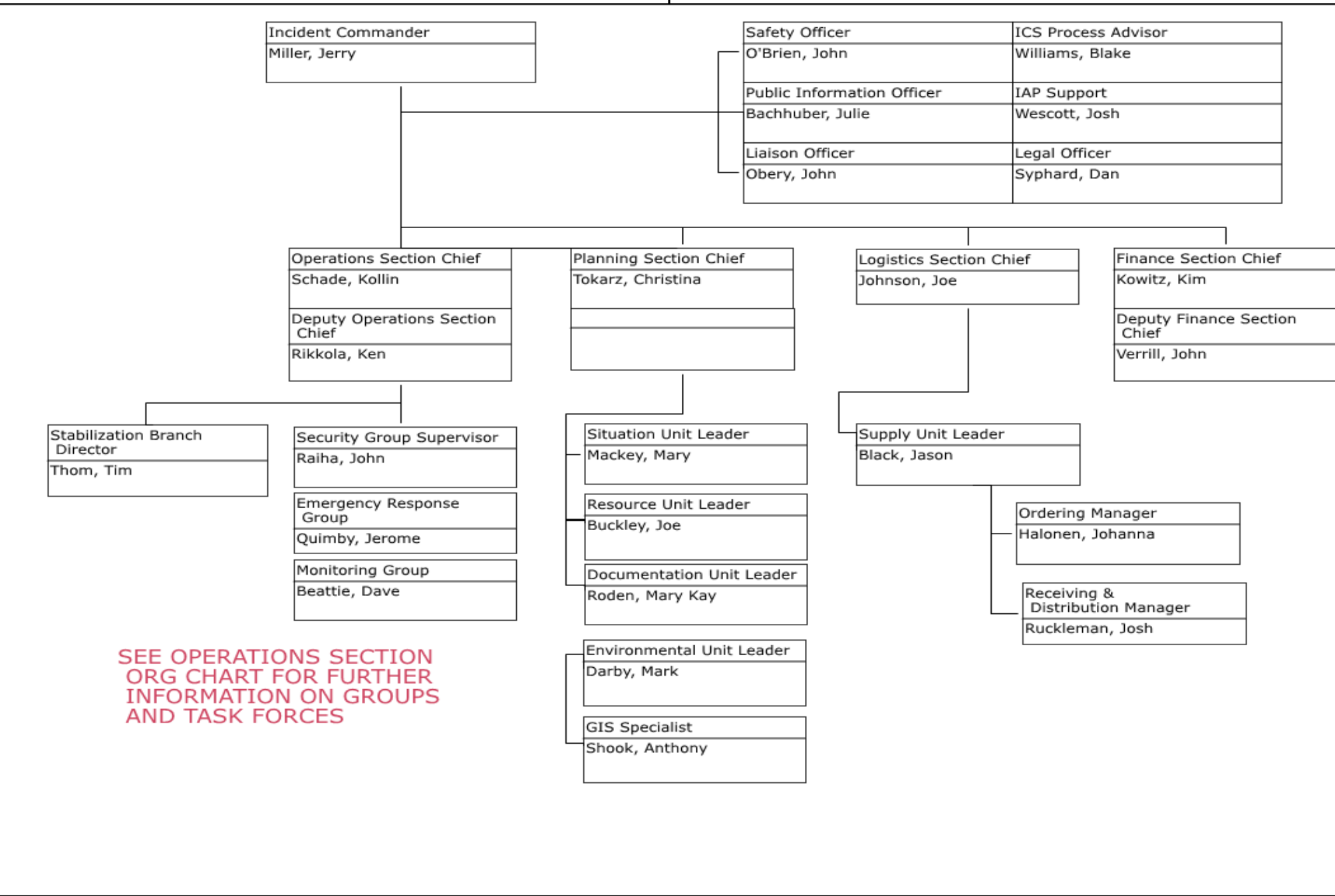
ICS 204 - Assignment List			Group: Decon Group	
Incident Name: 2018 Superior Refinery Fire			Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Decon Group Supervisor	Murphey, Tim	Husky Energy Inc.		
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
Decon Group	Manpower: Responder	Decon Personnel	4	
Decon Group	Equipment: Decon	Decon Station	1	
Assignments				
Conduct personnel decon as per standard procedure outlined in Refinery ERP.				
Communications				
Name / Function	Contact Details			
ERT Channel	8			
Channel 1 Talk Around	11			
Primary	1			
Secondary	2			
Radio	3 to 7			
Special Site-Specific Safety Considerations				
Decon personnel must wear chemical gear over FR coveralls.				
Four station boot Decon: 1. Simple Green Wash Station #1 2. Water rinse station #2 3. Water rinse station #3 4. Clean water tub station #4				
<div style="height: 300px; border: 1px solid black;"></div>				
ICS 204 - Assignment List			Updated 04/30/2018 12:02 UTC -6:00	
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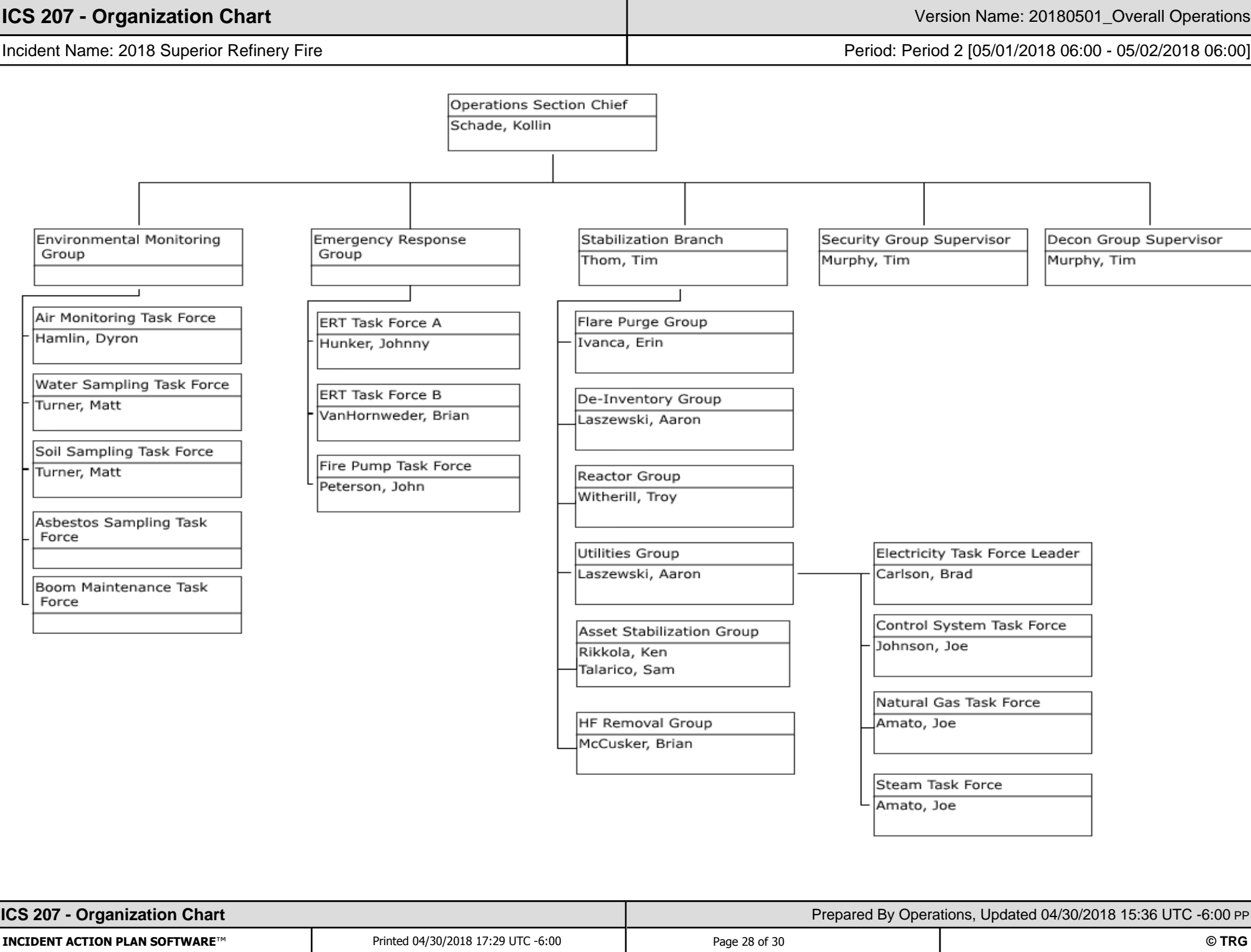
ICS 205 - Radio Communications					Version Name: Period 2				
Incident Name: 2018 Superior Refinery Fire					Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]				
Radio Channel Information									
Ch #	Function	Channel Name/ Trunked Radio System Talkgroup	Assignment	Rx Freq N or W	Rx Tone/NAC	Tx Freq N or W	Tx Tone/NAC	Mode (A, D, or M)	Remarks
1	Primary	Primary Radio Channel - Repeated							
2	Secondary	Secondary Radio Channel - Repeated							Secondary Repeated Channel Unit and Uses
3 to 7	Radio	Radio to Radio Channels							Working Channel
8	ERT Channel	Emergency Response Channel							Emergency Response Team Channel
11	Channel 1 Talk Around	Channel 1 Talk Around							Use this channel in case of failure of repeated Channel 1
12	Channel 2 Talk Around	Channel 2 Talk Around							Use this channel in case of failure of repeated Channel 2
Special Radio Instructions									
ICS 205 - Radio Communications					Prepared By Logistics, Updated 04/30/2018 14:03 UTC -6:00 PP				
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ICS 205a - Communications List				Version Name: Period 2	
Incident Name: 2018 Superior Refinery Fire				Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
Local Communications Information					
Name	Incident Assigned Position	Mobile Phone	Work Phone	Email	Notes
Miller, Jerry	Incident Commander	Non-Responsive	03-226-2466		
Syphard, Dan	Legal Officer				
Obery, John	Liaison Officer			john.obery@huskyenergy.com	
O'Brien, John	Safety Officer				
Murphy, Tim	Security Officer			tim.murphy@huskyenergy.com	
Bachhuber, Julie	Public Information Officer				
Morrison, Dave (EPA)	Agency Representative				
Schade, Kollin	Operations Section Chief				
Rikkola, Ken	Deputy Operations Section Chief			ken.rikkola@huskyenergy.com	
Thom, Tim	Stabilization Branch Director			timothy.thom@huskyenergy.com	
Beattie, Dave	Environmental Monitoring Group Supervisor			dave.beattie@huskyenergy.com	
Quimby, Jerome	Emergency Response Group			jerome.quimby@husklyenergy.com	
Murphey, Tim	Decon Group Superviso				
Murphy, Tim	Security Group Supervisor			tim.murphy@huskyenergy.com	
Tokarz, Christina	Planning Section Chief			Christina.Tokarz@huskyenergy.com	
Peterson, John	Documentation Unit Leader			john.petersoniii@huskyenergy.com	
Darby, Mark	Environmental Unit Leader			mark.darby@huskyenergy.com	
Roden, Mary Kay	Documentation Unit Leader			mary.roden@huskyenergy.com	
Buckley, Joe	Resource Unit Leader			jbuckley@responsegroupinc.com	
Mackey, Mary	Situation Unit Leader			mary.mackey@huskeyenergy.com	
Wescott, Josh	ICS Technical Specialist		81-880-5000 jwescott@responsegroupinc.com		
Shook, Anthony	GIS Specialist		81-880-5000 AShook@responsegroupinc.com		
Kowitz, Kim	Finance Section Chief		18-349-7206		
Johnson, Joe	Logistics Section Chief				
ICS 205a - Communications List			Prepared By Logistics, Updated 04/30/2018 18:14 UTC -6:00 PP		
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ICS 206 - Medical Plan				Version Name: Period 2				
Incident Name: 2018 Superior Refinery Fire				Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]				
Medical Aid Stations								
<i>Name</i>	<i>Location</i>	<i>Paramedic On Site</i>	<i>Phone</i>	<i>Radio</i>				
Superior Refinery Medical Aid Station	-92.07578 46.68889	<input checked="" type="checkbox"/>						
Transportation (Ground and/or Air Ambulance Services)								
<i>Ambulance Service</i>	<i>Location</i>	<i>Phone</i>	<i>Radio</i>	<i>Air</i>	<i>ALS</i>			
Global Air Ambulance	3500 Tower Ave. Superior, WI 54888 -92.07202 46.68952	Ph1: (305) 514-0942		<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Gold Cross Ambulance Service	4505 W. Michigan St. Duluth, MN -92.15475 46.74444	Ph1: (218) 628-9323		<input type="checkbox"/>	<input type="checkbox"/>			
Hospitals								
<i>Hospital</i>	<i>Location</i>	<i>Phone</i>	<i>Radio</i>	<i>Air Travel Time</i>	<i>Ground Travel Time</i>	<i>Trauma Center</i>	<i>Helipad</i>	<i>Burn Center</i>
Essentia Health St. Mary's Hospital	3500 Tower Ave Superior, MN -92.10236 46.69748	Ph1: (715) 817-7000		min	15 min	II	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Essentia Health Duluth (Miller Dwan) Thermal or Chemical Burns	502 E 2nd St Duluth, MN -92.09367 46.79244	Ph1: (218) 727-8762		min	30 min	II	<input type="checkbox"/>	<input checked="" type="checkbox"/>
St Luke's Duluth	915 East First Street Duluth, MN -92.08762 46.79718	Ph1: (218) 249-5555		min	30 min	II	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				min	min		<input type="checkbox"/>	<input type="checkbox"/>
ICS 206 - Medical Plan				Prepared By Medical, Updated 04/30/2018 14:03 UTC -6:00 PP				
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ICS 206 - Medical Plan		Version Name: Period 2	
Incident Name: 2018 Superior Refinery Fire		Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]	
<p align="center">Special Medical Emergency Procedures</p>			
<p>All injured employees who require more than in-house first aid, (i.e. lacerations requiring stitches, severe eye problems, severe strains/sprains or fractures) will be sent to the following medical facility:</p> <p>Essentia St. Mary's Occupational Medicine Clinic 3500 Tower Ave Superior, WI (715) 817-7100</p>			
<p>INJURIES INVOLVING EXPOSURE TO HYDROFLUORIC ACID</p> <p>For minor exposures, the employee may be transported to Essentia St. Mary's Emergency Room in Superior, the Essentia Duluth Clinic Occupational Medicine Clinic or the Essentia St. Mary's Hospital Emergency Room in Duluth.</p> <p>For all but minor exposures, the employee should be transported by ambulance to: St. Mary's Hospital Emergency Room in Duluth: 407 East 3rd Street Duluth, MN 218-786-4000</p>			
<p>INJURIES INVOLVING THERMAL OR CHEMICAL BURNS</p> <p>For injuries involving all but minor thermal or chemical burns, employees should be transported by ambulance to: Essentia Miller-Dwan Burn Center 502 E. Second St., First Floor Duluth, MN (218) 786-2815</p>			
<div></div>			
ICS 206 - Medical Plan		Prepared By Medical, Updated 04/30/2018 14:03 UTC -6:00 PP	
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ICS 208 - Site Safety Plan					Version Name: Period 2				
Incident Name: 2018 Superior Refinery Fire					Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]				
Applies to Site: Superior Refinery									
Site Characterization									
Water		Land		Weather		Sunny			
Wave Height		Land Use		Air Temp		74 Fahrenheit			
Speed				Wind Speed		13 mph			
Direction				Direction		SW			
Site Hazards									
Yes	No	Hazards	Yes	No	Hazards	Yes	No	Hazards	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Boat Safety	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fire, Explosion, In-situ Burning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pump Hose	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chemical Hazards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Heat Stress	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Slips, Trips, and Falls	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cold Stress	<input type="checkbox"/>	<input type="checkbox"/>	Helicopter Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steam and Hot Water	
<input type="checkbox"/>	<input type="checkbox"/>	Confined Spaces	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lifting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Trenching/Excavation	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Drum Handling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Motor Vehicles	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UV Radiation	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Equipment Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Noise	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Visibility	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Electrical Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Overhead/Buried Utilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Weather	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fatigue	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Plants/Wildlife	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Work Near Water	
Air Monitoring Limits									
Oxygen Level		19.5 to 22.5%	Benzene		1 PPM	Hydroflouric Acid		3 PPM	
LEL		5%	Total Hydrocarbons			Sulfur Dioxide		2 PPM	
Hydrogen Sulfide		10 PPM	Carbon Moxide		35 PPM				
Engineering Controls									
<input type="checkbox"/>	Source of release secured		<input type="checkbox"/>	Valve(s) closed		<input type="checkbox"/>	Energy sources locked/tagged out		
<input type="checkbox"/>	Site secured		<input checked="" type="checkbox"/>	Facility shut down					
Personal Protective Equipment Required									
<input type="checkbox"/>	Impervious suit		<input checked="" type="checkbox"/>	Hard hats		<input checked="" type="checkbox"/>	Boots		
<input type="checkbox"/>	Inner gloves		<input checked="" type="checkbox"/>	Respirators		<input checked="" type="checkbox"/>	Bunker Gear		
<input checked="" type="checkbox"/>	Outer gloves		<input checked="" type="checkbox"/>	Eye protection		<input checked="" type="checkbox"/>	ERT SCBA		
<input checked="" type="checkbox"/>	Flame resistant clothing		<input checked="" type="checkbox"/>	Personal flotation					
Additional Control Measures Established									
<input checked="" type="checkbox"/>	Decontamination		<input checked="" type="checkbox"/>	Illumination		<input type="checkbox"/>	Additional stations established		
<input type="checkbox"/>	Sanitation		<input type="checkbox"/>	Medical surveillance		<input type="checkbox"/>	Facilities provided		
Work Plan									
<input checked="" type="checkbox"/>	Booming		<input type="checkbox"/>	Excavation		<input type="checkbox"/>	Hot work		
<input type="checkbox"/>	Skimming		<input checked="" type="checkbox"/>	Heavy equipment		<input checked="" type="checkbox"/>	Appropriate permits used		
<input checked="" type="checkbox"/>	Vac trucks		<input checked="" type="checkbox"/>	Sorbent pads					
<input checked="" type="checkbox"/>	Pumping		<input checked="" type="checkbox"/>	Patching					
Training									
<input type="checkbox"/>	Verified site workers trained per local/federal regulatory requirements			Training Requirements					
ICS 208 - Site Safety Plan									
Prepared By O'Brien, John, Updated 04/30/2018 16:32 UTC -6:00 PP									
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ICS 208 - Site Safety Plan				Version Name: Period 2			
Incident Name: 2018 Superior Refinery Fire				Period: Period 2 [05/01/2018 06:00 - 05/02/2018 06:00]			
Organization							
<i>Position</i>		<i>Name</i>		<i>Telephone/Radio</i>		<i>Position</i>	
Deputy Incident Commander						Safety Officer	
Incident Commander		Jerry Miller				Operations Section Chief	
						John O'Brien	
						Ken Rikkola	
Emergency Plan							
<input checked="" type="checkbox"/>	Fire Prevention Plan			<input checked="" type="checkbox"/>	Evacuation Plan		
<input checked="" type="checkbox"/>	Alarm System			<input checked="" type="checkbox"/>	First Aid Location		
Notifications							
<i>Facility</i>				<i>Phone</i>		<i>Facility</i>	
<input checked="" type="checkbox"/>	Hospital	Essential St. Mary's Hospital		218-786-4000		<input checked="" type="checkbox"/>	Fire
<input checked="" type="checkbox"/>	Ambulance	Gold Cross		911		<input checked="" type="checkbox"/>	Law Enforcement
<input type="checkbox"/>	Air Ambulance					<input checked="" type="checkbox"/>	Emergency Response/Rescue
						Superior Fire Department	
						Superior Police Department	
						ERT	
						Radio	
Initial Briefing							
<input checked="" type="checkbox"/>	Initial safety briefing prepared for each site						
Attachments/Appendices							
Attachment				Filename			
Material Evaluations for SSP.pdf				Material Evaluations for SSP.pdf			
Asphalt SDS.pdf				Asphalt SDS.pdf			
ICS 208 - Site Safety Plan				Prepared By O'Brien, John, Updated 04/30/2018 16:32 UTC -6:00 PP			
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